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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=9; day=29; hr=9; min=44; sec=3; ms=408;]

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Application No: 10561720 Version No: 2.0

Input Set:

Output Set:

Started: 2008-08-29 16:36:15.018
Finished: 2008-08-29 16:36:15.776
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 758 ms
Total Warnings: 8
Total Errors: 0
No. of SeqIDs Defined: 19
Actual SeqID Count: 19

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)

SEQUENCE LISTING

<110> Board of Trustees Operating Michigan State University
Allison, Richard F.

<120> Expression of a Recombinant Transgene

<130> 6550-000072/US/NPB

<140> 10561720

<141> 2005-12-22

<150> PCT/US04/21451

<151> 2004-07-02

<150> US 60/485,073

<151> 2003-07-03

<160> 19

<170> PatentIn version 3.5

<210> 1

<211> 26

<212> DNA

<213> Cowpea chlorotic mottle virus

<400> 1

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<210> 2

<211> 16

<212> DNA

<213> Cowpea chlorotic mottle virus

<400> 2

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<210> 3

<211> 835

<212> DNA

<213> Cauliflower mosaic virus

<400> 3

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aagatatatt tctcaagatc agaagtacta ttccagtatg gacgattcaa ggcttgcttc 240

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 <212> DNA
 <213> Encephalomyocarditis virus

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gggcccggaa acctggccct gtcttcttga cgagcattcc taggggtctt tcccctctcg	180
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gaagacaaaac aacgtctgta gcgacccttt gcaggcagcg gaacccccca cctggcgaca	300
ggtgcctctg cggccaaaag ccacgtgtat aagatacacc tgcaaaggcg gcacaacccc	360
agtgccacgt tgtgagttgg atagttgtgg aaagagtcaa atggctctcc tcaagcgtat	420
tcaacaaggg gctgaaggat gcccagaagg taccctattg tatgggatct gatctggggc	480
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<210> 5
 <211> 581
 <212> RNA
 <213> Encephalomyocarditis virus

<400> 5 aauuccgccc cucuccucc cccccccua acguuacugg ccgaagccgc uuggaauaag	60
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gggcccggaa accuggcccu gucuucuuga cgagcauucc uaggggucuu uccccucug	180

ccaaaggaau gcaaggucug uugaaugucg ugaaggaagc aguuccucug gaagcuucuu	240
gaagacaaac aacgucugua gcgacccuuu gcaggcagcg gaacccccca ccuggcgaca	300
ggugccucug cggccaaaag ccacguguau aagauacacc ugcaaaggcg gcacaacccc	360
agugccacgu ugugaguugg auaguugugg aaagagucaa auggcucucc ucaagcguau	420
ucaacaaggg gcugaaggau gcccagaagg uaccccauug uaugggaucu gaucuggggc	480
cucggugcac augcuuuaa uguguuuagu cgagguaaaa aaaacgucua ggccccccga	540
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<210> 6
 <211> 581
 <212> DNA
 <213> Encephalomyocarditis virus

<400> 6	
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acaatgggggt accttctggg catccttcag ccccttggtg aatacgcttg aggagagcca	180
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<210> 7
 <211> 581
 <212> RNA
 <213> Encephalomyocarditis virus

<400> 7	
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aaaugggggu accuucuggg cauccuucag ccccuuguug aaucgcuug aggagagcca	180
uuugacucuu uccacaacua uccaacucac aacguggcac ugggguugug ccgccuuugc	240

agguguauc uauacacgug gcuuuuggcc gcagaggcac cugucgccag gugggggguu	300
ccgcugccug caaaggguccg cuacagacgu uguuugucuu caagaagcuu ccagagggaac	360
ugcuuccuuc acgacauuca acagaccuug cauuccuuug gcgagagggg aaagaccccu	420
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<210> 8
 <211> 242
 <212> DNA
 <213> Cowpea chlorotic mottle virus

<400> 8	
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ggttttactc cttgaaccct tcggaagaac tctttggagt tcgtaccagt acctcacata	180
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cc	242

<210> 9
 <211> 242
 <212> RNA
 <213> Cowpea chlorotic mottle virus

<400> 9	
agugcccgcu gaagagcggu acacuagugu ggccuacuug aaggcuaguu auaaccguuu	60
cuuuaaacgg uaaucguugu ugaaacgucu uccuuuuaca agaggauuga gcugcccuug	120
gguuuuacuc cuugaaccu acggaagaac ucuuuggagu ucguaccagu accucacaua	180
gugagguaau aagacuggug ggcagcgccu agucgaaaga cuaggugaug ucuaaggaga	240
cc	242

<210> 10
 <211> 242
 <212> DNA
 <213> Cowpea chlorotic mottle virus

<400> 10	
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cccaagggca gctcaatcct cttgtaaaag gaagacgttt caacaacgat taccgtttaa 180
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 ct 242

<210> 11
 <211> 242
 <212> RNA
 <213> Cowpea chlorotic mottle virus

<400> 11
 ggucuccuua gagaucaccu agucuuucga cuaggcgcug cccaccaguc uuauuaccuc 60
 acuaugugag guacugguac gaacuccaaa gaguucucc gaaggguuca aggaguaaaa 120
 cccaagggca gcucaauccu cuuguaaaag gaagacguuu caacaacgau uaccguuuua 180
 agaaacgguu auaacuagcc uucaaguagg ccacacuagu guaacgcucu ucagcgggca 240
 cu 242

<210> 12
 <211> 12
 <212> DNA
 <213> Artificial

<220>
 <223> Artificial sequence used to show antisense relationship of a gene
 and IRES to a promoter and viral 3' UTR

<220>
 <221> misc_feature
 <222> (1)..(3)
 <223> n is a, c, g, or t

<400> 12
 nnncatggaa tt 12

<210> 13
 <211> 12
 <212> DNA
 <213> Artificial

<220>
 <223> Complement of artificial sequence used to show antisense
 relationship of a gene and IRES to a promoter and viral 3' UTR

<220>
 <221> misc_feature
 <222> (10)..(12)
 <223> n is a, c, g, or t

<400> 13
 aattccatgn nn 12

<210> 14
 <211> 12
 <212> RNA
 <213> Artificial

<220>
 <223> Transcript of RNA polymerase

<220>
 <221> misc_feature
 <222> (1)..(3)
 <223> n is a, c, g, or u

<400> 14
 nnncauggaa uu 12

<210> 15
 <211> 12
 <212> RNA
 <213> Artificial

<220>
 <223> Complement of transcript of RNA polymerase

<220>
 <221> misc_feature
 <222> (10)..(12)
 <223> n is a, c, g, or u

<400> 15
 aaauccaugn nn 12

<210> 16
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA Construct containing promoter complementary coding sequence,
 exemplary IRES complementary sequence and a viral 3' UTR in 5' -
 3' orientation

<220>
 <221> misc_feature
 <223> DNA construct wherein YYY indicates complementary first
 translatable codon after initiation codon and an asterisk
 indicates a stop codon.

<400> 16
yyycatggaa tt 12

<210> 17
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA Construct containing promoter, coding sequence, exemplary
IRES sequence and a viral 3' UTR in 3' - 5' orintation

<220>
<221> misc_feature
<223> DNA construct wherein XXX indicates first translatable codon
after initiation codon and an asterisk indicates a stop codon.

<400> 17
yyygtacctt aa 12

<210> 18
<211> 12
<212> RNA
<213> Artificial Sequence

<220>
<223> RNA Construct containing complementary coding sequence, exemplary
IRES complementary sequence and a viral 3' UTR in 5' - 3'
orintation

<220>
<221> misc_feature
<223> Recombinant RNA sequence where YYY is the complement of the first
codon after the initiation codon and where an asterisk indicates
a stop codon.

<400> 18
yyycauggaa uu 12

<210> 19
<211> 12
<212> RNA
<213> Artificial Sequence

<220>
<223> RNA Construct containing viral 3' UTR, exemplary IRES sequence
and a coding sequence in 5' - 3' orientation

<220>
<221> misc_feature

<223> Complementary sequence (sense strand) of RNA recombinant sequence
where XXX is the first translatable codon after initiation codon
and where an asterisk indicates a stop codon.

<400> 19

aaauccaugy yy

12